

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Tanacetum parthenium*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	(-)-CAMP�OR	Plant	--	--		
67	1,8-CINEOLE	Shoot	--	--		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
1	3-BETA-HYDROXYPARTHENOLIDE	Shoot	--	1.2		
1	3-BETA-HYDROXYPARTHENOLIDE	Leaf	--	--		
36	ALANTOLACTONE	Leaf	--	--		
2	ALPHA-HUMULENE	Shoot	--	--		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
11	ALPHA-PHELLANDRENE	Essential Oil	--	6000	-0.4769076636125325	
28	ALPHA-PINENE	Fruit Essent. Oil	--	2000	-0.8225046812392973	
28	ALPHA-PINENE	Shoot	--	15	-0.14595252753743698	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
28	ALPHA-PINENE	Essential Oil	--	10000	-0.47207505752571344	
13	ALPHA-TERPINENE	Shoot	--	45	-0.35510895262369646	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
13	ALPHA-TERPINENE	Plant	--	--		
23	ALPHA-TERPINEOL	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Shoot	--	2.5	-0.2832600201311504	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
5	ALUMINUM	Plant	--	6	-0.7451443685154636	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	ARTECANIN	Leaf	--	--		
4	ARTECANIN	Plant	--	--		
4	ARTECANIN	Shoot	--	0.4		
1	ARTEMORIN	Shoot	--	4		
112	ASCORBIC-ACID	Plant	--	330	-0.5162152379862993	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
24	BENZALDEHYDE	Shoot	--	--		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
9	BENZYL-ALCOHOL	Fruit Essent. Oil	--	--		
1	BENZYL-ISOBUTYRATE	Shoot	--	--		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
1	BENZYL-ISOVALERATE	Shoot	--	--		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
2	BENZYL-PROPIONATE	Shoot	--	--		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	BETA-CAROTENE	Plant	--	14	-0.6513567486971203	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
13	BETA-PINENE	Fruit Essent. Oil	--	1000	-0.7715573703107804	
13	BETA-PINENE	Essential Oil	--	--		
13	BETA-PINENE	Shoot	--	4	-0.12082019397820601	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
47	BETA-SITOSTEROL	Fruit Essent. Oil	--	--		
47	BETA-SITOSTEROL	Leaf Essent. Oil	--	16000		
35	BORNEOL	Fruit Essent. Oil	--	1300		
35	BORNEOL	Essential Oil	--	10000	-0.8168042453042687	
35	BORNEOL	Shoot	--	9	-0.3900888401961888	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
12	BORNYL-ACETATE	Shoot	--	28	-0.36126712188937815	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
28	CALCIUM	Plant	--	5810	-0.8321353407836742	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
9	CAMPHENENE	Fruit Essent. Oil	--	7000	-0.3352780859890732	
9	CAMPHENENE	Essential Oil	--	54000	0.9292841063141826	
9	CAMPHENENE	Shoot	--	95	-0.1255113105525119	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	CAMPHENENE	Leaf Essent. Oil	--	30000	0.1899278105662218	
41	CAMPHOR	Shoot	--	24	-0.15638075587436032	
41	CAMPHOR	Essential Oil	--	442000	1.342251919291669	
41	CAMPHOR	Leaf Essent. Oil	--	201000	0.40766428831174817	
41	CAMPHOR	Fruit Essent. Oil	--	189000		
5	CANIN	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
5	CANIN	Leaf	--	--		
5	CANIN	Shoot	--	0.8		
37	CARVACROL	Shoot	--	--		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
31	CARYOPHYLLENE	Fruit Essent. Oil	--	--		
6	CARYOPHYLLENE-EPOXIDE	Shoot	--	31	1.6391694335729892	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
8	CARYOPHYLLENE-OXIDE	Fruit Essent. Oil	--	4000	-1	
24	CHROMIUM	Plant	--	1.7	-0.7046051474035722	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	CHRYSANTHENYL-ACETATE	Shoot	--	360		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	COBALT	Plant	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	COSMOIIN	Flower	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	COSTUNOLIDE	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
9	COSTUNOLIDE	Shoot	--	6	-1	
10	CUMINALDEHYDE	Shoot	--	--	-0.32576507180696485	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
3	CYNAROSIDE	Leaf	--	--		
9	DELTA-CADINENE	Shoot	--	--		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
9	DELTA-CADINENE	Essential Oil	--	--		
1	ELEUTHEROSIDE-B-1	Shoot	--	--		
76	EUGENOL	Fruit Essent. Oil	--	1000		
76	EUGENOL	Essential Oil	--	--		
2	FARNESENE	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
15	FIBER	Plant	--	143000	-0.5900378792839802	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	GAMMA-TERPINENE	Fruit Essent. Oil	--	1000	-1.0164567396291118	
11	GAMMA-TERPINENE	Essential Oil	--	10000	-0.6855735643465313	
11	GAMMA-TERPINENE	Shoot	--	28	-0.3749884139681809	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
2	GERMACRENE-D	Shoot	--	4	-0.36824936936969666	
2	GERMACRENE-D	Tissue Culture	--	--		
2	GERMACRENE-D	Leaf Essent. Oil	--	31000	-0.5383216002693361	
2	GERMACRENE-D	Essential Oil	--	46000	-1	
6	IRON	Plant	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
5	ISOFRAXIDIN	Root	--	122	1	
60	LIMONENE	Essential Oil	--	5000	-0.7082860385987012	
60	LIMONENE	Shoot	--	--		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
53	LINALOOL	Essential Oil	--	13000	-0.5248552467846653	
3	LUTEOLIN-7-GLUCURONIDE	Leaf	--	--		
65	MAGNESIUM	Plant	--	2400	-0.5172740870337147	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
14	MANGANESE	Plant	--	8.1	-0.6368507291246737	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

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23	MELATONIN	Leaf	6	3500	1.4142114910611014	
22	MYRCENE	Fruit Essent. Oil	--	--		
39	NIACIN	Plant	--	285	2.918886504988539	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
16	P-CYMENE	Shoot	--	9	-0.49426810257944204	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
16	P-CYMENE	Fruit Essent. Oil	--	5000	-0.9962725072187498	
16	P-CYMENE	Essential Oil	--	31000	-0.3774568610491117	
27	PARTHENOLIDE	Plant	--	--		
27	PARTHENOLIDE	Fruit Essent. Oil	--	284000		
27	PARTHENOLIDE	Flower	--	2424		
27	PARTHENOLIDE	Leaf	130	300000		
27	PARTHENOLIDE	Leaf Essent. Oil	--	61000		
27	PARTHENOLIDE	Shoot	80	8700		
27	PARTHENOLIDE	Seed	--	15200		
4	PHOSPHORUS	Plant	--	5010	0.683008160317236	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	PINOCARVONE	Fruit Essent. Oil	--	2000		
1	PINOCARVONE	Essential Oil	--	--		

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1	PINOCARVONE	Shoot	--	2	-0.6307569440575539	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
14	POTASSIUM	Plant	--	22500	0.04901058337072094	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	REYNOSIN	Plant	--	--		
1	REYNOSIN	Flower	--	1485		
1	REYNOSIN	Leaf	--	--		
1	REYNOSIN	Shoot	--	0.4		
15	RIBOFLAVIN	Plant	--	2.5	-0.6210248948087893	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
5	SABINENE	Shoot	--	5	-0.29059831881924897	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of <i>Tanacetum parthenium</i> (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
5	SABINENE	Essential Oil	--	--		
5	SABINENE	Fruit Essent. Oil	--	1000	-0.7138066475051742	
5	SABINOL	Fruit Essent. Oil	--	1300		
5	SANTAMARIN	Flower	--	--		
5	SANTAMARIN	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	SANTAMARIN	Plant	--	--		
3	SANTAMARINE	Flower	--	424		

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60	SELENIUM	Plant	--	1.7	-0.3516547080519198	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	SILICON	Plant	--	4.6	-0.5184035386753152	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
1	SODIUM	Plant	--	48	-0.3014209590315537	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
12	STIGMASTEROL	Fruit Essent. Oil	--	--		
23	TERPINEN-4-OL	Fruit Essent. Oil	--	1000	-0.7441224268433381	
23	TERPINEN-4-OL	Shoot	--	4	-0.16552235945768073	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
23	TERPINEN-4-OL	Essential Oil	--	28000	-0.3450735894935254	
9	TERPINOLENE	Plant	--	--		
9	TERPINOLENE	Shoot	--	--		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
31	THIAMIN	Plant	--	4.1	-0.2974931626940486	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
2	THUJOPSENE	Shoot	--	1.5	-0.7071067811865476	Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.
71	THYMOL	Shoot	--	--		Hendriks, H., Bos, R., and Woerdenbag, H. J. 1996. The Essential Oil of Tanacetum parthenium (L.) Schultz-Bip. Flavor and Fragrance Journal 11(6): 367-71.

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4	TIN	Plant	--	21	0.00964806037643002	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
77	ZINC	Plant	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.